



The Journal of Systems and Software

Volume 19, Number 1, September 1992

Contents

- Editor's Corner: The Link Between Software Quality and Software Maintenance** 1
Robert L. Glass
- Multiuser Processes and Shared Capability Lists for Shared Workspace Collaboration** 3
Sheng-Wei Guan and Hussein Abdel-Wahab
- An Object-Oriented Inference Engine for PROLOG** 13
Daniel Lanovaz and Duane Szafron
- An Application of Decision Theory for the Evaluation of Software Prototypes** 27
Sergio R. Cárdenas, Jianhui Tian, and Marvin V. Zelkowitz
- Verification of Protocol Conformance Test Cases Using Reachability Analysis** 41
Kshirasagar Naik and Behcet Sarikaya
- A Comparative Performance Analysis of a Multidisk System under Head-of-the-line and Alternating Priority Disciplines** 59
Meenakshi Gupta, Manju Agarwal, and Ashok Kumar
- Performance Analysis of the Priority Queues for the Load-Building Algorithms** 69
Anna Hać
- PASS—A Multiuser Parallel File System Based on Microcomputers** 75
L. L. Miller, S. R. Inglett, and A. R. Hurson
- Pragmatic Design of Meetings and Presentations** 85
H. Joel Jeffrey
- A Survey of Knowledge Acquisition Techniques and Tools and Their Relationship to Software Engineering** 97
Henrik Eriksson
- Biographies** 109

Volume 19, Number 2, October 1992

SPECIAL ISSUE ON EXPERT SYSTEMS THAT FAILED

Contents

- Guest Editors' Introduction** 111
Jo Ann Oravec and Robert Plant

If We Could Do It Over, We'd . . .	113
Learning from Less-than-Successful Expert System Projects	
Jo Ann Oravec and Larry Travis	
Expert Systems in Production Scheduling:	123
Lessons from a Failed Implementation	
Roger M. Kerr	
Success and Failure in Cooperative Expert Systems Development:	131
A Tale of Two Projects	
William E. Spangler and Jerrold H. May	
Expert System Development and Testing:	141
A Knowledge Engineer's Perspective	
R. T. Plant	
Environment Selection, Training, and Implementation in High-Level Expert Systems	147
Environments: Experiences and Guidelines	
Mike Morrison, Joline Morrison, Olivia R. Liu Sheng, and Kunihiko Higa	
Case Analysis of Expert Systems Projects: Strategies and Examples	153
Lance B. Eliot	
Expert System Explanation in Retrospect: A Case Study in the Evolution of Expert	159
System Explanation	
Michael R. Wick	
Dimensions of Expert System Management	171
Paul Licker and Bruce Olsen	
Controversy Corner: Information Models of Software Productivity:	185
Limits on Productivity Growth	
Robert C. Tausworthe	
Biographies	203

Volume 19, Number 3, November 1992

Contents

Editor's Corner: Finally—Someone Who Understands Where Software Quality Fits In	205
Robert L. Glass	
Specifying Multiple-Viewed Software Requirements with Conceptual Graphs	207
Harry S. Delugach	
Reverse Engineering Processes, Design Document Production, and Structure Charts	225
P. Benedusi, A. Cimitile, and U. De Carlini	
Dynamic Adaptive Surface Rendering Within a Distributed Memory Multiprocessor	247
M. R. Stytz and O. Frieder	
SMILI: Visualization of Asynchronous Massively Parallel Programs	261
Rashi Khanna and Bruce McMillin	

A Comparative Analysis of the Topic Areas of Computer Science, Software Engineering, and Information Systems Robert L. Glass	277
Biographies	291
1992 Author Index	293
1992 Subject Index	295

